

**Department of Defense  
Human Factors Engineering  
Technical Advisory Group  
Meeting 54**



**November 7-10 2005**

**Wyndham Baltimore Inner Harbor  
101 W. Fayette Street  
Baltimore, MD 21201**

# Meeting Theme

## Human Factors in Network Centric Warfare

This meeting of the DoD HFE TAG will focus on the Human Factors Engineering aspects of Network Centric Warfare.

Ideally a fully *networked* force will be able to:

- Develop *shared information*,
- Yielding a *shared understanding* of the tactical situation,
- Leading to *shared actions* against the enemy, and
- Ultimately resulting in *supremacy on the battlefield*.

The success of this process however, will depend on the integration of the *Human Component*. Several areas of concerns exist including:

- Information is not objective, it is contextual and depends on both the sender's and receiver's mental model of the "real world".
- Sharing information does not always lead to shared *situational awareness*, and it is through shared situational awareness that true synergy can emerge.
- The proliferation of network technology and increased operational tempos have created a situation where the cart (technology) may be driving the horse (military operational strategy). While it is important that the cart (technology) continue to move forward, it is as important that the cart continue moving in the appropriate direction (appropriate application of technology to military operations)

As Human Factors Engineers it is our mission to adapt new technologies for use by human operators to maximize effectiveness while lower training and manpower burdens. The Network Centric Warfare concept can help us to meet all of these goals, but only if implemented in a way that maximizes the abilities of, and lowers the burdens on our most important asset – our warfighter.

Please join us for an informative and thought provoking meeting.

# PROGRAM SUMMARY

<p style="text-align: center;"><b>Department of Defense</b> <b>Human Factors Engineering Technical Advisory Group</b> <b>Meeting 54: 7-10 November 2005, Baltimore, MD</b></p>
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## ***Monday, 7 November***

0830 - 1000	Executive Committee meeting
1000 - 1100	New member orientation
1100 - 1230	Luncheon Break
1230 - 1700	Plenary Session
1800 - 2000	TAG Mixer

## ***Tuesday, 8 November***

0730 - 0830	Technical Society/Industry
0830 - 1100	Human Factors Test and Evaluation
0830 - 1100	Sustained/Continuous Operations
0830 - 1100	Personnel Screening and Selection
0930 - 1000	Networking, coffee
1100 - 1230	Luncheon Break
1230 - 1430	Human Factors Standardization
1230 - 1430	Controls and Displays
1230 - 1700	Human Factors in Training
1430 - 1500	Networking, coffee
1500 - 1700	Human Factors in Extreme Environments
1500 - 1700	Human Factors and Operational Medicine
1700 - 1830	Technical Society/Industry and Service Caucuses

## ***Wednesday, 9 November***

0830 - 1100	Human Modeling and Simulation
<del>0830 - 1100</del>	<del>Workload and Stress*</del>
0930 - 1000	Networking, coffee
1100 - 1230	Luncheon Break
1230 - 1430	Design: Tools and Techniques
1230 - 1430	User-Computer Interaction
1430 - 1500	Networking, coffee
1500 - 1700	Human Factors Engineering/Human Systems Integration: Management and Applications
1500 - 1700	System Safety/Health Hazards/Survivability
1700 - 1800	Mission Centric Human Performance Measurement Interest Group
1830 - 2200	Social

## ***Thursday, 10 November***

0830 - 1000	Operating Board
1000 - 1200	Luncheon Break
1200 - 1700	Tour

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\* The Workload and Stress subTAG will not be held at this meeting.

# SESSIONS

## MONDAY, 7 NOVEMBER

### **Executive Committee – 0830– 1000**

### **New Member Orientation – 1000 – 1100**

### **Plenary – 1300 – 1700**

1300 Welcome DoD HFE Chair - Ms. Maureen Bergondy-Wilhelm

1310 Army Host Welcome and Overview - Dr. Robin Keesee, Deputy to the Commander US Army Research, Development and Engineering Command

1330 Update on Human Factors Issues - Dr. Robert Foster, Office of the Secretary of Defense

1400 Human Factors Challenges of Technology Driven Net-Centric Warfare - Dr. Alfred Kaufman, Institute for Defense Analysis

1430 Break

1500 Understanding & Leading the Human Cognitive Network in Net-Centric Warfare - LTC John M. Graham, PhD, Department of Behavioral Sciences & Leadership

1530 Human Systems Integration and Human Factors Issues in Net-Centric - Lt Col Stephen Waller, Office of the Secretary of the Air Force, Human Systems Integration and Human Factors Issues in NCW

1615 Introduction to the New HSIAC - Dr. Kristen Liggett, COR HSIAC

1630 Update to DoDi 6055.7 Safety Investigation Analysis and Recordkeeping - Lt Col Don White

1640 ITEA - Ms. Reta Reynolds

### **TAG Mixer – 1800 – 2000**

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## **TUESDAY, 8 NOVEMBER**

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### **Technical Society/Industry – 0730 – 0830**

- Introductions of new TS/I reps and briefings on the societies they represent.
- Updates/Briefings from other TS/I reps (these can be 5-10 min. prepared or just a quick explanation of issues of importance within your TS)
- 1472 update (if time allows)

### **Human Factors Test and Evaluation – 0830 – 1100**

#### **Sustained/Continuous Operations - 0830 – 1100**

- Opening Comments - LCDR Walter Carr, Naval Medical Education and Training Command & National Institutes on Deafness and Other Communication Disorders / Tom Nesthus, Ph.D., Federal Aviation Administration Civil Aerospace Medical Institute
- Effects Of Sleep Deprivation And Recovery Sleep On Speech, Language And Other Higher Cognitive Functions: A Combined EEG-Fmri Study - LCDR Walter Carr, Naval Medical Education and Training Command & National Institutes on Deafness and Other Communication Disorders
- To Develop A New Fmri Brain Activation Study Paradigm For The Assessment Of The Oculomotor Circuit Employing REM Sleep Eye Movements As A Natural Probe - Charles Chong H. Hong, M.D., M.S., Ph.D., Johns Hopkins Medicine
- Changes in Gene Expression in Air Force Pilots After up to 35 Hours of Sleeplessness - Dennis Burian, Ph.D., Functional Genomics Group, Federal Aviation Administration Civil Aerospace Medical Institute
- Fatigue Prediction Using Voice Analysis - Harold Greeley, Creare Inc.
- Neuropsychological Assessment and the Enhancement of Network Centric Warfare - Robert E. Schlegel, Ph.D., & Kirby Gilliland, Ph.D., Center for the Study of Human Operator Performance (C-SHOP) University of Oklahoma
- Predicting Individual Differences in Response to Sleep Deprivation - Dante Picchioni, Ph.D., Walter Reed Army Institute of Research

### **Personnel Selection and Classification - 0830 – 1100**

#### **Human Factors Standardization – 1230 – 1430**

- Introduction of Attendees
- Status Reports
  - MIL-STD-1472 (Human Engineering)
  - EIA HEB-1 (Human Engineering Principles and Practices)
  - MIL-STD-1474 (Noise Limits)
  - MIL-STD-1787 (Aircraft Display Symbolology)
  - Joint Service Specification Guide-2010
  - NASA-STD-3000 (Human Systems Integration Standard)
  - HFES & ISO TC 159 (Ergonomics)
  - Data Item Descriptions
- Re-Printing of Human Factors Design Data Digest
- Putting SubTAG products into DTIC
- Capture history of human factors standards
- Human-system integration guidance
- Chair Select

- New Business

### **Controls and Displays – 1230– 1430**

- Display of Mission Planning Information for Intelligent Autonomy in Unmanned Systems - Dr. Lisa Billman, ARINC Engineering Services, Naval Surface Warfare Center-Panama City, FL
- Reducing Visual Clutter of Map-Based Displays - Erika Darling, The MITRE Corporation, Erika Darling, The MITRE Corporation, Bedford, MA, 781-271-5955, [edarling@mitre.org](mailto:edarling@mitre.org)
- Information Displays for Individual Dismounted Soldiers: A Workload Baseline for Modeling - Dr. M.R. Fletcher, US Army Research Lab, Human Research and Engineering Directorate, Natick Soldier Systems Center, Natick, MA
- Visualization of Uncertainty - Ms Denise Aleva, Air Force Research Lab, Wright-Patterson AFB, OH
- Cognitive State and Operational Performance - Ms Jennifer A.B. McKneely, John Hopkins University Applied Physics Lab, Laurel, MD
- The Crew Station Design Tool- Mr. Chris Plott, Micro Analysis and Design, Boulder, CO

### **Human Factors in Training – 1230 – 1700**

### **Human Factors in Extreme Environments – 1500 – 1700**

### **Human Factors and Operational Medicine – 1500 – 1700**

- Opening Comments - CDR Sean Biggerstaff, Assistant Director for Human Systems, BioSystems Directorate, Office of the Deputy Under Secretary of Defense (Science & Technology) / LCDR Walter Carr, Naval Medical Education and Training Command & National Institutes on Deafness and Other Communication Disorders
- Center for Sustainment of Trauma And Readiness Skills (C-STARS) - Col Thomas Grissom, M.D., C-STARS Baltimore Director
- National Capital Area Medical Simulation Center - Col Mark Bowyer, M.D., FACS, Surgical Director and acting Director of the National Capital Area Medical Simulation Center, Uniformed Services University.
- Distributed Team Training for Trauma Care - Colin Mackenzie, M.D. University of Maryland, Baltimore MD
- Deployment Training for Public Health Service Reserve Officers - LTJG Joshua Hardin, RN, Recruitment and Training Officer, Office of Reserve Affairs, Office of the Surgeon General
- Human Performance Assessment and Medical Education and Training - TBD
- Summary, business, next meeting

### **Technical Society/Industry - 1700 – 1830**

- MIL-STD-1472 status (Alan Poston)
- TS sub-group representation amendment
- Nomination / election of new TS/I chair

### **Air Force Caucus - 1700 – 1830**

### **Army Caucus - 1700 – 1830**

### **Navy Caucus - 1700 – 1830**

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**WEDNESDAY, 9 NOVEMBER**

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## **Human Modeling and Simulation – 0830– 1100**

## **Design: Tools and Techniques – 1230 – 1430**

### **User-Computer Interaction – 1230 – 1430**

- Human Factors Evaluation of FCS-networked Communication Capabilities in Platoon Field Tests - Elizabeth Bowman, PhD, Research Psychologist, ARL-HRED, 410-278-5924, EBowman@arl.army.mil
- User Interface Considerations for Improving Situational Awareness - Cynthia A. Nelson, CPE; The Boeing Company, 2401 East Wardlow Road MC C052-0007 Long Beach, CA 90807-5309; 562-593-2694, cynthia.a.nelson@boeing.com
- Interaction Challenges for Pen-based Input at the Front Line - Ms Janet B. Perron, MITRE Corp., Electronic Systems Command, Hanscom AFB, MA

### **Human Factors Engineering/Human Systems Integration: Management and Applications - 1500 – 1700**

- Joint Distributed Free-play Event (JDFFE): The Future of Human Performance Testing - James Fielder, Engineering Psychologist, Human Systems Integration, US Army Aberdeen Test Center, Aberdeen Proving Ground, MD.
- Effects of Stress on Cognitive Performance in Military Environments; A Look at Metrics and Methodology - Debra J. Patton, Psychology Technician, U.S. Army Research Laboratory, Human Research and Engineering Laboratory, Aberdeen Proving Ground, MD.
- System-of-Systems (SoS) HSI/MANPRINT - Stephen C. Merriman, MANPRINT Manager - FCS Program, The Boeing Company, Richardson, Texas.
- Human Computer Interface Design Patterns for Cognitive and Collaborative Tasks within Command and Control: A Call for Interservice Participation - Terry Stanard, Ph.D., Research Psychologist, Cognitive Systems Branch, Air Force Research Lab, WPAFB, OH
- Quantifying Total Body Fatigue: An Approach for Estimating the Impact of Task Demands on Human Performance - Lesia L. Crumpton-Young, Ph.D, Professor and Chair of the Department of Industrial Engineering and Management Systems (IEMS) at The University of Central Florida (UCF).

### **System Safety/Health Hazards/Survivability – 1500– 1700**

- MOMRP Research Supporting Survivability - Mr. Michael Leggieri , Medical Research and Materiel Command, Military Operational Medicine Research Program
- Avoiding Injury Through Human-Capable Design In DoD - Mr. Mark Geiger , Chief of Naval Operations, Occupational Safety and Health Branch
- Update on Impulse Noise Hazard Assessments - Mr. Chuck Jokel, Center for Health Promotion and Preventive Medicine, Hearing Conservation Program
- Soldier Occupational Health Assessment Program - Mr. John Cambre, Center for Health Promotion and Preventive Medicine, Industrial Hygiene Field Services Program

### **Mission Centric Human Performance Measurement Interest Group - 1700 - 1800**

Draft announcement for the inaugural meeting of Mission Centric Human Performance Measurement Interest Group at DoD HFE TAG 54.

Defense acquisition reform is focused on investing defense dollars into mission capability rather than “stuff” and “things”. The Joint Capability Integration and Development System (JCIDS) requires that mission gap analysis be used to determine if new hardware/(software) is required to help close mission gaps identified by operational units.

In the initial mission gap analysis, consideration must be given to military doctrine, organization, training, materiel, leadership and education, personnel and facilities (DOTMLPF) to identify non material alternatives to closing the mission gap thus avoiding the cost of material acquisitions. Further, when material acquisition is required as part of the “gap filling solution” the effects of the new material/system on DOTMLPF must also be determined and addressed in system and material design decisions to insure that the mission gap can be filled by the available personal using the new material/system. For the HFE and related human physical and behavioral (including organizational behavior) science disciplines, the requirement to focus efforts on filling mission performance gaps requires a broader perspective and new tools for the engineers and behavioral scientists to arrive at the most cost beneficial system engineering and organizational design decisions. System centric HFE will continue to be a critical piece of the system engineering paradigm to insure system usability. Equally if not more important there is a need to effectively incorporate the mission performance requirements – particularly the human role and tasks that must be filled and performed to actually execute military missions in very unpredictable, asymmetric and somewhat chaotic threat and battle space environments.

The Mission Centric Human Performance Measurement Interest Group being formed under the DoD Human Factors Technical Advisory Group (DoD HFE TAG) is intended to provide a forum for HFEs, Human Performance Improvement, and Human Systems Integration (HSI) Engineering professionals to collaboratively explore issues related to measuring human performance of contemporary and future mission tasks in both laboratory research and applied field environments. Many tools and methods can be adapted from system centric human performance measurement and psychometric experience, but most and many more new tools will need to be adapted, created and applied in new, sometimes very difficult conditions measuring very complex human performance. This interest group will be used in TAG-54 to determine the potential value of making Mission Centric Human Performance Measurement a permanent HFE TAG SubTAG with the decision to be made by the TAG Executive Board following TAG 57. That decision will be based on membership interest in the topic area as demonstrated by attendance at interest group meetings for TAGS 55, 56, and 57; the presentation quality and uniqueness (i.e. as distinguished from topics/presentations in existing permanent TAG SubTAGs), and the perceived value of the output of the group to the DoD HFE community.

This first meeting will follow the last regular Sub-Group meeting on Wednesday, beginning at 1700 (5:00 PM) and will formally last for approximately one hour. Appropriately, TAG practice for Interest Groups is to avoid interference with permanent SubTAG meeting attendance. There will be a couple short representative presentations and discuss of topics of interest to those in attendance to help assess the potential for the interest group, decide if it should meet again (TAG 55) and if so, discuss and capture rudimentary elements of a group charter.

## **Social – 1830 – 2200**

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## **THURSDAY, 10 NOVEMBER**

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### **Operating Board – 0830 – 1000**

### **Tour – 1200 – 1700**

US Army Aberdeen Test Center's Soldier Systems Test Facility at Mulberry Point has been designed to provide permanent site capabilities to support variable mission profiles for soldier test and training. The TAG will be touring the SSTF after touring Army Research Lab facilities. Areas of the tour include Multiple, varied MOUT areas, VIP viewing and conference area, and various other facilities that are currently under construction at the SSTF including a new Human Factors Complex, Soldier Preparation building, and outdoor and indoor ranges.



## EXECUTIVE COMMITTEE

Chair (Navy)	Ms. Maureen Bergondy-Wilhelm	(407) 380-4777 DSN 960 maureen.bergondy@navy.mil
Vice Chair (Air Force)	Mr. Adrian Salinas	(210) 536-4428 adrian.salinas@brooks.af.mil
Immediate Past Chair (Army)	Ms. Dawn Woods	(508) 233-5069 DSN 256 dawn.woods@natick.army.mil
Army Representative	Mr. Benjamin Gibson	(210) 221-1622/DSN 471 <a href="mailto:ben.gibson@amedd.army.mil">ben.gibson@amedd.army.mil</a>
Navy Representative	LT Henry Phillips	(361) 961-1334 henry.phillips@navy.mil
Air Force Representative	Dr. Robert Nullmeyer	(480) 988-6561x283 DSN 474 robert.nullmeyer@mesa.afmc.af.mil
NASA Representative	Ms. Faith Chandler	(202) 358-0411 fchandle@hq.nasa.gov
FAA Representative	Dr. Thomas McCloy	(202) 267-7167 tom.mccloy@faa.gov
TAG Coordinator	Ms. Sheryl Cosing	(703) 925-9791 scosing@comcast.net

## SUBTAG CHAIRS

Controls and Displays	Mr. Adrian Salinas	(210) 536-4428 DSN 240 Adrian.salinas@brooks.af.mil
	Ms. Marianne Paulsen	(850) 235-5527 Marianne.paulsen@navy.mil
Design: Tools and Techniques	Major Joe Menchaca	(937) 255-7777 x3313 DSN 785 joe.menchaca@afit.edu
Human Factors and Operational Medicine	LCDR William Carr	(301) 435-5144 <a href="mailto:carr@nidcd.nih.gov">carr@nidcd.nih.gov</a>
	CDR Sean Biggerstaff	(703) 588-7404 sean.biggerstaff@osd.mil
Human Factors Engineering / Human Systems Integration: Management and Applications	Ms. Katrina Baker	(410) 278-3472 Katrina.baker@atc.army.mil
	Mr. Corey Cook	(850) 234-4829 Corey.cook@navy.mil
Human Factors in Extreme Environments	Charles Weaver	(850) 234-4152 Charles.Weaver1@navy.mil
Human Factors in Training	Ms. Melissa Walwanis-Nelson	(407) 380-4749 DSN 960 Melissa.walwanis@navy.mil
	Ms. Danielle Merket	(407) 380-4792 DSN 960

		Danielle.merket@navy.mil
Human Factors Standardization	Mr. Alan Poston	(202) 493-4519 <a href="mailto:alan.poston@faa.gov">alan.poston@faa.gov</a>
Human Factors Test and Evaluation	Mr. Edward George Mr. John Rice	(661) 277-0800x2297 DSN 527 edward.george@edwards.af.mil (757) 282-5546 x3802 ricej@coft.navy.mil
Human Modeling and Simulation	LCDR Joseph Cohn	(202) 404-8624 cohn@itd.nrl.navy.mil
Personnel Selection and Classification	LT Richard Arnold Dr. Raymond King	(407) 380-4668 Richard.arnold1@navy.mil (405) 408-5216 Skyking321@aol.com
Sustained/Continuous Operations	Dr. Thomas Nesthus LCDR Walter Carr	(405) 954-6297 tom.nesthus@faa.gov (301) 435-5144 carrw@nidcd.nih.gov
System Safety/Health Hazards/Survivability	Mr. George Murnyak Dr. Michael Fineberg	(410) 436-2925 DSN 584 George.mrnyak@amedd.army.mil (703) 676-0060 finebergm@saic.com
Technical Society/Industry	Mr. William Lytle	(303) 971-8972 <a href="mailto:william.b.lytle@lmco.com">william.b.lytle@lmco.com</a>
User-Computer Interaction	LT Nausheen Momen Mr. Stephen Merriman	(850) 452-3668 pnmomen@kent.edu (972) 994-6419 Stephen.c.merriman@boeing.com
Workload and Stress	CDR Karl VanOrden	(619) 767-4556 DSN 524 vanordern@nhrc.navy.mil
Mission Centric Human Performance Measurement Interest Group	Mr. John Rice	(757) 282-5546 x3802 ricej@coft.navy.mil

If you are presenting at the plenary session, please bring your half page summary for inclusion in the Minutes or send it to the TAG Coordinator in advance. If you are presenting in a subTAG session, please send your summary to the subTAG chair of the session in which you are presenting.

### **GENERAL GUIDELINES**

Font: 11 or 12 point type, Arial (san serif) font. Margins: 1.0 inch left, right, top and bottom.

Submission: Electronic format is preferred: PC-readable disk or e-mail in Word format. If that is not possible, submit hardcopy that meets all the format requirements.

**Do not include classified, acquisition sensitive, or proprietary information.**

You may wish to have your sponsor's approval before briefing at the TAG. The summaries will be included in Minutes published on the TAG website.

### **SESSION ABSTRACTS FORMAT**

**TITLE:** Full presentation title.

**PRESENTER:** Name, title, organization, complete mailing address, phone number, DSN (if applicable), email (optional). Separate with commas on two or three lines to leave as much space for narrative as possible.

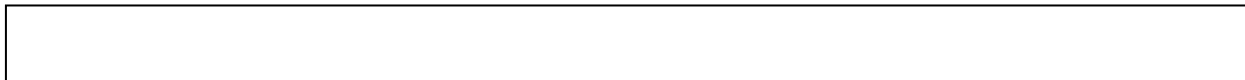
**SYNOPSIS:** Narrative. Briefing slides will not be published. Address all important points of your presentation in a succinct manner. Abstracts should be no longer than one-half page (4.25 inches in height or 25 lines maximum). Note general format above.

For presentations discussing results of research and applications:

Concentrate on completed research or interim results which have not been previously reported at the TAG. Include a general statement to orient the reader to the problem under study, the findings, and the recommendations.

For presentations discussing programs in progress:

Acquaint others with on-going work, so we may know what others are doing. Mention participating individuals, phone numbers, organizations, and the portion of work each is addressing so they may be contacted for more information. Mention joint-service participation and dual-use technologies. If the program is producing a product, mention what it will do; and identify the intended user community.



## ATTENDANCE POLICIES

Attendance at the **DoD HFE TAG** is open to:

- US Military/Government employees
- Official technical society/industrial association representatives
- Employees of National Laboratories or Federally contracted research centers
- Specifically invited plenary presenters/guests
- Students majoring in human factors and related disciplines

All others must have a written invitation to attend. Contact the TAG Coordinator for additional information.

## ACCOMMODATIONS

A block of rooms has been reserved for the TAG at the Wyndham Baltimore Inner Harbor, 101 W. Fayette Street, Baltimore, MD 21201.

Cutoff date: ~~14 October 2005~~ **Cutoff extended to 25 October**  
TAG rates: single \$141

The above rates are exclusive of tax. The current taxes are 12.5% room/night.

Check-in: 1600 hours      Check out: 1200 hours

Reservations: (410) 385-6700 or (410) 752-1100 - reference the DoD HFE TAG. **DO NOT MAKE YOUR RESERVATIONS ONLINE AS YOUR RESERVATION WILL NOT BE ASSOCIATED WITH OUR GROUP.**

**No BOQ** arrangements in the Baltimore metropolitan area have been made for the TAG.

## TRANSPORTATION

**Transportation:** From BWI - Take 195 West to 95 North. Take Exit 53 (395 North). Follow 1/2 mile and turn right on Pratt Street. Proceed 3 blocks and turn left on Charles St. Proceed 3-4 blocks and turn left on Fayette Street. Hotel is 1 block ahead on the left. From IAD - VA-267 to I-495; keep left. Merge onto Capital Beltway to I-95N; keep left on ramp to I-395N, which becomes S. Howard St. Turn right on Pratt St. Left on Charles St. Left on Fayette St.  
Taxi - approximately \$25 dollar from BWI.

## REGISTRATION

Registration can be done online at the TAG web site: <http://hfetag.dtic.mil/register.html> or by submitting the registration form in this packet.

Please remember that you must be register and be badged before attending any SubTAG/Plenary session.

<b>Registration Desk is open</b>	Monday	1100 – 1430
	Tuesday	0800 – 1430
	Wednesday	0800 – 0830
	Thursday	0800 – 0830

## PAYMENT

**Credit card:** *The TAG accepts payment for registration by credit card using PayPal only. The online registration form must be used in order to accept a credit card payment. CREDIT CARDS ARE NOT ACCEPTED ON-SITE.*

**Checks or money orders:** Are accepted. Purchase orders are not accepted. Please do not mail cash. Enclose payment with the registration form, or send separately if registering online.

**No registrations will be accepted after 28 October 2005.** If you are unsure whether you will be able to attend the meeting and this deadline presents a problem, call the TAG Coordinator.

**Fees:**

Regular registration	\$100.00
Special student fee (applies to full-time students)	\$ 5.00
Social - per person (optional)	\$40.00

**FUNCTIONS**

**Social:** A networking, social event will be held on Wednesday evening, 9 November 2005. Join us for an evening in the heart of Baltimore's Little Italy. We'll dine in the private dining room at Luigi Petti's for a classic Italian family meal - [www.luigipettirestaurant.com](http://www.luigipettirestaurant.com). The cost is \$45 and includes transportation. Guests are welcome! You must prepay when you register to attend this event.

**Tour:** On Thursday, we will depart the hotel at 1200 for a tour at the Aberdeen Proving Ground. More details to be provided shortly.

**MISCELLANEOUS**

**Travel Orders:** All technical meetings will be held at the conference hotel. For networking purposes and for meeting changes/updates, it is desirable that you stay at the conference hotel.

**Clearances:** All briefings are unclassified: no clearances are necessary for U.S. citizens for any of the scheduled meetings.

**Messages:** Non-emergency messages will be kept at the TAG registration desk. Emergency messages will be delivered during the meeting. For incoming calls, use (410) 752-1101, referencing the TAG.

**Military Dress:** Check with your Service Representative.

**Abstracts:** Presenters at any of the sessions should provide a summary of their presentation to their subtag chair prior to the meeting for inclusion in the Minutes of the meeting. An electronic version is preferred. For format and detailed instructions, refer to the Abstracts section of this packet.

**New Members:** If you are new to the TAG, you should plan to attend the new member orientation session on Monday, 7 November 2005 from 1000-1100 hours. New attendees are also encouraged to participate in their specific caucus meetings.

**Caucus Meetings:** If you work for one of the military services (uniform or civilian), you should plan to attend your service caucus meeting. These meetings are intended to provide you with the opportunity to participate in TAG decisions and discussions concerning service-specific issues.

**Materials Storage:** The Wyndham Baltimore Inner Harbor will accept small packages for storage at no cost. Label the items:

ATTN: DoD HFE TAG/S. COSING  
Wyndham Baltimore Inner Harbor  
101 W. Fayette Street  
Baltimore, MD 21201.

**DEPARTMENT OF DEFENSE  
HUMAN FACTORS ENGINEERING  
TECHNICAL ADVISORY GROUP (TAG)  
Meeting 54: 7-10 November 2005**

**Use this form or register online: <http://hfetag.dtic.mil/register.html>**

1. Mailing Information (including military rank or title, ie., Dr., Ms., Mr.):

Name \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
City/State/Zip \_\_\_\_\_  
Telephone \_\_\_\_\_ DSN \_\_\_\_\_ FAX \_\_\_\_\_  
Email \_\_\_\_\_

2. Badge Information:

Name \_\_\_\_\_  
Organization \_\_\_\_\_

3. Status (See "Attendance Policies" for information)

(     ) military/government (     ) GOCO (     ) other \_\_\_\_\_  
(     ) official (credentialed) TS/I member representing \_\_\_\_\_

4. If called the week prior to the TAG, do you have a 15-30 minute briefing you could present?

(     ) plenary session or \_\_\_\_\_ SubTAG session

5. Dinner event at Luigi Petti's on Wednesday, 9 November (guests are welcome):

\_\_\_yes \_\_\_no \_\_\_\_\_ # of total attendees (including yourself)

6. Tour on Thursday, 10 November of the Aberdeen Test Center (no cost):

\_\_\_yes \_\_\_no \_\_\_\_\_ # of total attendees (including yourself)

7. Enclose check/money order made out to the **DoD HFE TAG**. Credit card payment must be made via the TAG's online registration form <http://hfetag.dtic.mil/meetschl.html>:

Regular registration	\$100.00	___
Student registration	\$ 5.00	___
Social Event	\$45.00	___

**TOTAL** \_\_\_\_\_

**Return this form and payment by 10/28/05 to:**

Sheryl Cosing  
10822 Crippen Vale Ct.  
Reston, VA 20194  
Phone (703) 925-9791 FAX (703) 925-9694  
[scosing@comcast.net](mailto:scosing@comcast.net)  
TAG Web Site <http://hfetag.dtic.mil>